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APPLICATION NO. ·	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/811,768	03/29/2004	Kiyoshi Ooi	CU-3664 RJS	9500	
26530 LADAS & PAR	7590 06/14/2007		EXAMINER		
224 SOUTH MICHIGAN AVENUE			MENZ, DOUGLAS M		
SUITE 1600 CHICAGO, IL 60604			ART UNIT	PAPER NUMBER	
			2891		
·					
			MAIL DATE	DELIVERY MODE	
			06/14/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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·		Application No.	Applicant(s)	Applicant(s)			
Office Action Summary		10/811,768	OOI ET AL.				
		Examiner	Art Unit				
		Douglas M. Menz	2891				
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover shee	t with the correspondence a	nddress			
WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication, period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMU 36(a). In no event, however, ma vill apply and will expire SIX (6) I cause the application to becom	INICATION. y a reply be timely filed MONTHS from the mailing date of this are ABANDONED (35 U.S.C. § 133).				
Status							
1) 又	Responsive to communication(s) filed on 28 M	arch 2007					
	This action is FINAL . 2b) This action is non-final.						
·	, — · · · · · · · · · · · · · · · · · ·						
, —	closed in accordance with the practice under E						
Disposition of Claims							
	Claim(s) <u>1-23</u> is/are pending in the application.						
	4a) Of the above claim(s) <u>1-9 and 14-23</u> is/are		eration				
	Claim(s) is/are allowed.	withdrawn from Consid	eration.				
· —	Claim(s) 10-13 is/are rejected.						
	Claim(s) is/are objected to.						
	Claim(s) are subject to restriction and/or	r election requirement	•	•			
	on Papers	cicoton requirement.					
	•						
	The specification is objected to by the Examine						
10)[X]	The drawing(s) filed on 29 March 2004 is/are: a			er.			
	Applicant may not request that any objection to the						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority ι	ınder 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:							
	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
	3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachmen	t(s)						
	te of References Cited (PTO-892)		ew Summary (PTO-413)				
	e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08)	Paper No(s)/Mail Date 5) Notice of Informal Patent Application					
Paper No(s)/Mail Date 6) Other:							

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 10-13 are rejected under 35 U.S.C. 102(e) as being anticipated by Takeuchi et al. (US 6586827).

Regarding claim 10, Takeuchi discloses a semiconductor device substrate (Figs. 1-9), comprising:

A substrate layer including an insulating layer (1, Figs. 1-9) and an interconnection layer (10, Figs. 1 and 9), the insulating layer and the interconnection layer being stacked;

An electronic component (4, Figs. 1, 3-9) buried in the insulating layer (1, Figs. 1-9), a bump (90, Figs. 1, 8-9) being formed on the electronic component acting as an electrode of the electronic component; and

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A base layer (16, Figs. 1 and 9) that is in contact with the insulating layer of the substrate layer and having an opening (vias) formed at a portion corresponding to the electronic component to expose at least an end of the bump (Figs. 1, 9 and Col. 3).

Regarding claim 11, Takeuchi further discloses wherein the bump (90) projects through the substrate layer so as to be connectable to an externally provided semiconductor element (Figs. 1, 8-9 and Col. 3).

Regarding claim 12, Takeuchi further discloses wherein the bump (90) projects from a surface of the electronic component facing the opening so as to be connectable to an externally provided semiconductor element (Figs. 1, 8-9 and Col. 3).

Regarding claim 13, Takeuchi further discloses wherein the substrate layer has a depressed portion (7, Fig. 6) between the opening and the electronic component to expose the bump (Col. 3).

Response to Arguments

Applicant's arguments filed 3/28/07 have been fully considered but they are not persuasive. Applicant argues that Takeuchi's structure is different from Applicant's embodiments as shown in Figs. 2J, 3I, 4I, 5I and 6-7. Examiner agrees that there are differences, however, the name of the game is the claim. Applicant's broad claim

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language is anticipated by Takeuchi's structure. Applicant is advised to amend the claims to more particularly point out Applicant's invention.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Douglas M. Menz whose telephone number is 571-272-1877. The examiner can normally be reached on M-F 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bill Baumeister can be reached on 571-272-1722. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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DOUGLAS M. MENZ PRIMARY PATENT EXAMINER